

115TH CONGRESS
1ST SESSION

S. 1455

To amend the United States Energy Storage Competitiveness Act of 2007 to direct the Secretary of Energy to establish new goals for the Department of Energy relating to energy storage and to carry out certain demonstration projects relating to energy storage.

IN THE SENATE OF THE UNITED STATES

JUNE 28, 2017

Mr. FLAKE (for himself and Mr. HEINRICH) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To amend the United States Energy Storage Competitiveness Act of 2007 to direct the Secretary of Energy to establish new goals for the Department of Energy relating to energy storage and to carry out certain demonstration projects relating to energy storage.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Energy Storage Goals
5 and Demonstration Projects Act”.

1 **SEC. 2. GOALS OF THE DEPARTMENT OF ENERGY RELAT-**
2 **ING TO ENERGY STORAGE COMPETITIVE-**
3 **NESS.**

4 The United States Energy Storage Competitiveness
5 Act of 2007 (42 U.S.C. 17231) is amended—

6 (1) by striking subsection (d) and inserting the
7 following:

8 “(d) COORDINATION; RESEARCH GOALS.—

9 “(1) COORDINATION.—In carrying out the ac-
10 tivities under this section, the Secretary shall coordi-
11 nate the activities with—

12 “(A) appropriate Federal agencies, includ-
13 ing the Department of Transportation and the
14 Federal Energy Regulatory Commission; and

15 “(B) to advance the development of com-
16 mercially viable energy storage systems, mem-
17 bers of private industry.

18 “(2) RESEARCH GOALS.—The Secretary shall—

19 “(A) establish subgoals for the program es-
20 tablished under subsection (c) that support the
21 conduct of demonstration projects under sub-
22 section (i)(5); and

23 “(B) align specific activities carried out
24 under the program established under subsection
25 (c) with priorities identified through direct con-
26 sultations between—

1 “(i) the Department;

2 “(ii) national laboratories;

3 “(iii) traditional end-users, such as
4 electric utilities; and

5 “(iv) potential end-users of new gen-
6 erations of energy storage systems.”; and

7 (2) in subsection (i), by adding at the end the
8 following:

9 “(5) PHASE 2 OF GRID-SCALE ENERGY STOR-
10 AGE DEMONSTRATION PROJECTS.—

11 “(A) IN GENERAL.—Not later than Sep-
12 tember 30, 2028, as part of the program estab-
13 lished under subsection (c), the Secretary shall,
14 to the maximum extent practicable, enter into
15 agreements to carry out not fewer than 3 grid-
16 scale energy storage demonstration projects.

17 “(B) OBJECTIVES.—Each demonstration
18 project carried out under subparagraph (A)
19 shall be designed—

20 “(i) to demonstrate that grid-scale en-
21 ergy storage technologies can be commer-
22 cially deployed;

23 “(ii) to be deployed at an installed en-
24 ergy capital cost of less than \$100 per
25 kWh;

- 1 “(iii) to have a minimum of 1 full
2 charge and discharge cycle per day; and
3 “(iv) to have a lifetime of at least
4 5,000 cycles of discharge at full output.”.

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